

From navy.radio at gmail.com Sun Feb 2 12:47:49 2014
From: navy.radio at gmail.com (Nick England)
Date: Sun, 2 Feb 2014 12:47:49 -0500
Subject: [BoatAnchors] Richmond VA hamfest photos
Message-ID: <CAB55hNfKjux1wFr0rbemaze6aKoZYpV2wt1ghWeyEij_PMz4XQ@mail.gmail.com>

I didn't take many since I left my phone charger at home - rats!
<http://www.virhistory.com/ham/rich-14.htm>
Nick England K4NYW
www.navy-radio.com

From bob145 at suddenlink.net Mon Feb 3 14:54:56 2014
From: bob145 at suddenlink.net (Bob Jackson)
Date: Mon, 3 Feb 2014 13:54:56 -0600
Subject: [BoatAnchors] Audio Quality Comparison
Message-ID: <2DB22F1C09C243838761687E61013320@c1408123a>

Looking to an un-scientific opinion/comparison of the audio quality between an HQ-140, a -150 and a -160. Thanks.

Bob AG5X
Whitehouse, TX

From arc5 at ix.netcom.com Sat Feb 8 13:58:40 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 8 Feb 2014 12:58:40 -0600
Subject: [BoatAnchors] Redux: When Caps Ain't Caps- Source for RF-Friendly pFd Caps
Message-ID: <66B00ACF93B8483C94ABED2C7E63D877@DaddyPC>

We've discussed this but I can't find the thread.

What is a good source for pFd- range capacitors that will pass 100 Watts worth of RF without eating it in losses? Not Nebraska Sucker Sales; I'll do without first. 150 pFd 2kV NP0 ceramics that LOOK good from Digikey might as well be big resistors. They're useless; made to kill switching supply spikes, I guess.

From gumbear at pacbell.net Sat Feb 8 16:49:45 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Sat, 8 Feb 2014 13:49:45 -0800

Subject: [BoatAnchors] Redux: When Caps Ain't Caps- Source for
RF-FriendlypFd Caps

In-Reply-To: <66B00ACF93B8483C94ABED2C7E63D877@DaddyPC>

References: <66B00ACF93B8483C94ABED2C7E63D877@DaddyPC>

Message-ID: <71664669121A4D13803F37C3AD1EB04A@KB6NAX>

This is one way to go, Dave:

<http://www.cde.com/catalogs/CD-CDV16.pdf> - 150pF, 1000V, 9 amps, DigiKey
338-2795-ND, \$1.82.

If the cap you need is a resonating capacitor the current can be huge,
paralleling several to get a higher current capability may be needed.

Arden Allen
KB6NAX

Adopt a shelter or rescue dog
and make a friend for life =:-)

-----Original Message-----

From: David Stinson

Sent: Saturday, February 08, 2014 10:58 AM

To: milsurplus at mailman.qth.net ; boatanchors at mailman.qth.net

Subject: [BoatAnchors] Redux: When Caps Ain't Caps- Source for
RF-FriendlypFd Caps

We've discussed this but I can't find the thread.

What is a good source for pFd- range capacitors that
will pass 100 Watts worth of RF without eating it in losses?
Not Nebraska Sucker Sales; I'll do without first.
150 pFd 2kV NP0 ceramics that LOOK good from Digikey
might as well be big resistors. They're useless;
made to kill switching supply spikes, I guess.

From arc5 at ix.netcom.com Sun Feb 9 05:21:51 2014

From: arc5 at ix.netcom.com (David Stinson)

Date: Sun, 9 Feb 2014 04:21:51 -0600

Subject: [BoatAnchors] When Caps Ain't Caps

Message-ID: <E218C420848543E78D4444A33D196F44@DaddyPC>

Thanks to all for the suggestions.

Shame to have to admit that, after all these years fiddling with
this,

I had such an obvious gap in my knowledge about capacitors.

That a 150 pFd 1kV NP0 in an oscillator wasn't the same animal when you put it on the output of an RF stage just didn't occur to my rock head.
Guess that solves the mystery of why some projects just would not work.
Think I'll pay attention to the "RF, Low-Loss" capacitor category now.

73 DE Dave AB5S

From gumbear at pacbell.net Sun Feb 9 14:59:31 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Sun, 9 Feb 2014 11:59:31 -0800
Subject: [BoatAnchors] When Caps Ain't Caps
In-Reply-To: <E218C420848543E78D4444A33D196F44@DaddyPC>
References: <E218C420848543E78D4444A33D196F44@DaddyPC>
Message-ID: <6D3F4E2E91044D878817FFBF91761200@KB6NAX>

Hi Dave,

Just to add to that bear in mind that capacitors also have "Q". Q being the lossiness, just the same as with inductors, although we don't much use that terminology with capacitors. Most of the loss in inductors is due to wire resistance and skin effect. In capacitors skin effect isn't much of concern but conductor resistance and dielectric loss is. Loss causes the lost energy to be dissipated as heat. A ceramic capacitor, depending on its dielectric type, can be hugely lossy. Even those types specified as NPO are not necessarily low loss types, they just have a nominally zero temperature coefficient of capacitance. For signal level circuits dielectric loss usually does not cause any problems because so little heat is generated. But when a cap has to pass high currents and withstand high AC voltages then smoke generation has to be taken into account. The only two types of high RF power caps I'm familiar with are porcelain ceramic and mica. They both generate less heat because of lower loss and both withstand heat better when pushed hard.

Arden

> Thanks to all for the suggestions.
Shame to have to admit that, after all these years

/boatanchors

From 1oldlens1 at ix.netcom.com Sun Feb 9 16:00:15 2014

From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Sun, 9 Feb 2014 13:00:15 -0800
Subject: [BoatAnchors] When Caps Ain't Caps
References: <E218C420848543E78D4444A33D196F44@DaddyPC>
<6D3F4E2E91044D878817FFBF91761200@KB6NAX>
Message-ID: <42CD21B100464D9D9CF901B155B181E5@VALUED20606295>

----- Original Message -----

From: "Arden Allen" <gumbear at pacbell.net>
To: "David Stinson" <arc5 at ix.netcom.com>; "Old Tube Radios (new)" <boatanchors at minime.theporch.com>
Sent: Sunday, February 09, 2014 11:59 AM
Subject: Re: [BoatAnchors] When Caps Ain't Caps

> Hi Dave,
>
> Just to add to that bear in mind that capacitors also have
> "Q". Q being the lossiness, just the same as with
> inductors, although we don't much use that terminology
> with capacitors. Most of the loss in inductors is due to
> wire resistance and skin effect. In capacitors skin
> effect isn't much of concern but conductor resistance and
> dielectric loss is. Loss causes the lost energy to be
> dissipated as heat. A ceramic capacitor, depending on its
> dielectric type, can be hugely lossy. Even those types
> specified as NPO are not necessarily low loss types, they
> just have a nominally zero temperature coefficient of
> capacitance. For signal level circuits dielectric loss
> usually does not cause any problems because so little heat
> is generated. But when a cap has to pass high currents and
> withstand high AC voltages then smoke generation has to be
> taken into account. The only two types of high RF power
> caps I'm familiar with are porcelain ceramic and mica.
> They both generate less heat because of lower loss and
> both withstand heat better when pushed hard.
>
> Arden

A real world capacitor can be seen as a combination of an ideal capacitor with a series resistor, series inductor, and parallel resistor. The effect of the series resistor can be written directly as a resistance or as dissipation factor, D. D is effectively $1/Q$ and is measured by many impedance bridges. The parallel resistance is due to imperfect insulation. It is much more of a factor for electrolytic caps than other types. A capacitor can test

well for value and D and still be leaky for DC.

The effective value of a capacitor for RF depends partly on its internal inductance. At some frequency the inductance combines with the capacitance to become series resonant. The resonant frequency can be important in some applications but is not often stated in capacitor data sheets except for surface mount ceramics intended for very high frequency use. In the past it was the accepted wisdom that mica and ceramic caps were superior for RF bypassing than other types, particularly paper caps but I am not so sure that modern film caps are not their equals. However, I can not find authoritative data to prove or disprove this.

This discussion has not included two types of capacitors often used for high power RF purposes, namely air dielectric and vacuum caps. Vacuum caps have the advantage over air caps of freedom from the effects of high humidity and corona. They are very suitable for final tank circuits and antenna tuning units. Most air caps are of the variable type but vacuum caps are/were made as both variable and fixed value.

Note that there are other effects beside resistance from the dielectric. These may or may not be important for a particular application. An example is dielectric absorption, this can have a definite effect on timing circuits but very little when used as a by-pass cap. In general plastic dielectric caps have lower dielectric absorption than other types with the exception of air and vacuum caps. Curiously enough paper caps are pretty good this way while mica and ceramics are not.

--

Richard Knoppow
Los Angeles
WB6KBL
dickburk at ix.netcom.com

From JJan-3 at cox.net Mon Feb 10 12:20:53 2014
From: JJan-3 at cox.net (Jim Hill)
Date: Mon, 10 Feb 2014 09:20:53 -0800
Subject: [BoatAnchors] When Caps Ain't Caps
Message-ID: <20140210171940.YAHH4705.fed1rmfepo202.cox.net@fed1rmimp209>

Dave:

You are not the only one surprised with this data. ESR data isn't what I expected. I thought it would be low at the lowest

frequencies, increasing as frequency got much higher. Maybe if you calculate dissipation factor, it seems more reasonable - I'll do so later today. But look at the dip at 1 MHz - far below frequencies where they claim benefits. There are not many data points at 10 MHz and below. I have some log paper somewhere, and will find it and figure out what frequencies were used.

Jim

From bob145 at suddenlink.net Mon Feb 10 14:27:31 2014
From: bob145 at suddenlink.net (Bob Jackson)
Date: Mon, 10 Feb 2014 13:27:31 -0600
Subject: [BoatAnchors] 35Z5 Tube
Message-ID: <7FABE42F4C80479D8D43532A3F3ED806@c1408123a>

I seem to recall that this tube was prone to certain types of failures. I had one recently develop an internal short of some kind. That failure cascaded into several other parts in the radio. Anyone had a similar experience with this tube? There doesn't seem to be any PnP replacements.

Bob AG5X
Whitehouse, TX

From gumbear at pacbell.net Mon Feb 10 15:08:47 2014
From: gumbear at pacbell.net (Arden Allen)
Date: Mon, 10 Feb 2014 12:08:47 -0800
Subject: [BoatAnchors] When Caps Ain't Caps
In-Reply-To: <20140210171940.YAHH4705.fed1rmfepo202.cox.net@fed1rmimpo209>
References: <20140210171940.YAHH4705.fed1rmfepo202.cox.net@fed1rmimpo209>
Message-ID: <F4AE9062AED840A59BF624FD614F2222@KB6NAX>

Am I correct in assuming we are talking about series resonance? If so the physical model of a capacitor is mostly an inductance in series with a capacitor. The leads and body inductance have inherent inductance which is inescapable. At the frequency where the inductance and capacitance resonate the impedance is lowest because you have a series resonant circuit. Just textbook in nature. Don't confuse this with ESR (equivalent series resistance) which is a dissipative loss factor.

Arden

> Dave:

You are not the only one surprised with this data. ESR data isn't what I expected. I thought it would be low at the lowest frequencies, increasing as frequency got much higher. Maybe if you calculate dissipation factor, it seems more reasonable - I'll do so

later today. But look at the dip at 1 MHz - far below frequencies where they claim benefits. There are not many data points at 10 MHz and below. I have some log paper somewhere, and will find it and figure out what frequencies were used.

Jim

From hankvc at lostwells.net Mon Feb 10 17:35:59 2014
From: hankvc at lostwells.net (HankVC)
Date: Mon, 10 Feb 2014 15:35:59 -0700 (MST)
Subject: [BoatAnchors] 35Z5 Tube
In-Reply-To: <7FABE42F4C80479D8D43532A3F3ED806@c1408123a>
Message-ID: <201402102235.s1AMZxIf004410@joanne.lostwells.net>

The esteemed Bob Jackson has said:

>

> I seem to recall that this tube was prone to certain types of failures. I had one recently develop an internal short of some kind. That failure cascaded into several other parts in the radio. Anyone had a similar experience with this tube? There doesn't seem to be any PnP replacements.

>

"Plug and play?" A good 35Z5 is as good as anything else. About 99% of the failures I've seen in these were open heaters, particularly the short section between pins 2 and 3. Often tied to an open (or missing) #47 bulb. I've seen the cathode open up if the radio was drawing excess current, and a cathode-plate short can happen.

I assume this is in an AA5. Some things to check are the output tube (50L6) cathode resistor and the grid input coupling cap from the 1st audio (12SQ7). I generally replace the cathode resistor with 180 ohms, instead of the 150 used by most OEM's. Use a VTVM to check the grid bias---should be almost 0.0 between grid and cathode. Cathode bias resistor should have around 7.5 volts across it. You don't need a bypass cap across that resistor (some OEM's put in 25 mfd; most did not).

In the 35Z5 circuit, use an 1847 bulb, and you can hang 250-300 ohms across the pin 2-3 heater terminals to shunt some of the plate current. If you want, you can add something like 33 ohms in series between AC hot and pin 2 on the 35Z5 to soften inrush current.

Another check I like to run on an AA5 is to measure heater voltage across each tube with the set playing. I've seen 12 volt tubes with only 8-9 volts showing, etc. and the rest of the string high.

Hank

From infomet at embarqmail.com Tue Feb 11 20:00:25 2014
From: infomet at embarqmail.com (Wilson)
Date: Tue, 11 Feb 2014 20:00:25 -0500
Subject: [BoatAnchors] BC-610 Xtals
Message-ID: <39E77916328D4EBBB2CD09C8D772ACF0@WilsonPC>

Is there any demand for these?

Wilson

W4BOH

From wf2u at ws19ops.com Wed Feb 12 09:18:58 2014
From: wf2u at ws19ops.com (Meir WF2U)
Date: Wed, 12 Feb 2014 09:18:58 -0500
Subject: [BoatAnchors] BC-610 Xtals
In-Reply-To: <39E77916328D4EBBB2CD09C8D772ACF0@WilsonPC>
References: <39E77916328D4EBBB2CD09C8D772ACF0@WilsonPC>
Message-ID: <F00F756B5B9A492A8BB4638C3F896E44@MBDCONSULTING.LOCAL>

Hi Wilson,

What frequencies?

Thanks,

73, Meir WF2U

Landrum, SC

-----Original Message-----

From: BoatAnchors [mailto:boatanchors-bounces at theporch.com] On Behalf Of
Wilson

Sent: Tuesday, February 11, 2014 8:00 PM

To: boatanchors at theporch.com

Subject: [BoatAnchors] BC-610 Xtals

Is there any demand for these?

Wilson

W4BOH

BoatAnchors mailing list

BoatAnchors at theporch.com

<https://minime.theporch.com/mailman/listinfo/boatanchors>

From knjhanlon at msn.com Wed Feb 12 13:45:15 2014

From: knjhanlon at msn.com (JAMES HANLON)
Date: Wed, 12 Feb 2014 11:45:15 -0700
Subject: [BoatAnchors] E F Johnson purchased
In-Reply-To: <1392223656.94920.YahooMailNeo@web122404.mail.ne1.yahoo.com>
References: <1392223656.94920.YahooMailNeo@web122404.mail.ne1.yahoo.com>
Message-ID: <BLU173-W312968F4EF31FCA54D5786A0920@phx.gbl>

Thought you folks would be interested in this.

Jim, W8KGI

Date: Wed, 12 Feb 2014 08:47:36 -0800
From: jmac6235 at yahoo.com
To: infomet at embarqmail.com; knjhanlon at email.msn.com

>From ARRL:JVC Kenwood has purchased the E.F. Johnson Company. EFJ
has been manufacturing radios for a long time and you'll see the hamfest vintage
equipment tables loaded with Johnson Rangers and Vikings and Thunderbolts while
their Matchbox antenna tuners are still doing the job in antenna systems across
the land. Lately, EFJ has been better known for its P25 VHF/UHF equipment used in
public safety communication systems.

And another American company bites the

rice. Mac

WQ8U

Hillsborough, NC

From kd5byb at kd5byb.net Wed Feb 12 14:08:07 2014
From: kd5byb at kd5byb.net (Ben Hall)
Date: Wed, 12 Feb 2014 13:08:07 -0600
Subject: [BoatAnchors] Interesting Adapters - 49121 and Pye to S0-239,
plus one unknown.
Message-ID: <52FBC697.9090407@kd5byb.net>

Good afternoon all,

Over the weekend, I saw an auction on the e-swamp for a small pile of
old-looking connectors. Looking at the listing photo, I spotted a
couple of Pye plugs and sockets, and what appeared to be a few Pye to
S0-239 adapters.

Pye to S0-239 adapter:

<http://i1027.photobucket.com/albums/y339/kd5byb/pye-so239_zps14b28f5f.jpg>

These would be very handy for my WS-19, so I bought them and they
arrived in the mail today. I was pleased, these alone were worth the
purchase price.

Looking thru the rest of the connectors, I found what appeared to be a Navy 49121 to S0-239 adapter:

<http://i1027.photobucket.com/albums/y339/kd5byb/49121toso239_zps1ccc3908.jpg>

I cannot tell if this is a very nice adapter that someone fabricated or if it was a factory job. It doesn't look as nicely made as the following, which is a "real" 49121 to BNC adapter:

<http://i1027.photobucket.com/albums/y339/kd5byb/49121toBNC_zps5fbdc251.jpg>

It will find use on my RBA.

But that was not the last mysterious piece. The below is another S0-239 adapter, but I cannot determine the type of connector on the non-S0-239 end.

<http://i1027.photobucket.com/albums/y339/kd5byb/antennatoso239_zpsc3fd6f23.jpg>

I put the PL-259 plug in the photo to remind me that this adapter has an S0-239 socket on it. Any ideas what this adapter might be?

thanks much and 73,
ben, kd5byb

From gumbear at pacbell.net Wed Feb 12 17:27:48 2014

From: gumbear at pacbell.net (Arden Allen)

Date: Wed, 12 Feb 2014 14:27:48 -0800

Subject: [BoatAnchors] Interesting Adapters - 49121 and Pye to S0-239,
plus one unknown.

In-Reply-To: <52FBC697.9090407@kd5byb.net>

References: <52FBC697.9090407@kd5byb.net>

Message-ID: <B87C46E62AF74E35A409FC621A7A6700@KB6NAX>

> But that was not the last mysterious piece. The below is another S0-239 adapter, but I cannot determine the type of connector on the non-S0-239 end.

http://i1027.photobucket.com/albums/y339/kd5byb/antennatoso239_zpsc3fd6f23.jpg

Ben, that's your good ol' car radio antenna plug, mil spec, of course.

Arden Allen
KB6NAX

Adopt a shelter or rescue dog
and make a friend for life =:-)

From kd5byb at kd5byb.net Wed Feb 12 18:00:35 2014
From: kd5byb at kd5byb.net (Ben Hall)
Date: Wed, 12 Feb 2014 17:00:35 -0600
Subject: [BoatAnchors] Interesting Adapters - 49121 and Pye to SO-239,
plus one unknown.
In-Reply-To: <B87C46E62AF74E35A409FC621A7A6700@KB6NAX>
References: <52FBC697.9090407@kd5byb.net>
<B87C46E62AF74E35A409FC621A7A6700@KB6NAX>
Message-ID: <52FBFD13.9090106@kd5byb.net>

On 2/12/2014 4:27 PM, Arden Allen wrote:
> Ben, that's your good ol' car radio antenna plug, mil spec, of course.

Hi Arden and list,

Thanks much for all the responses - indeed, the consensus is that it is
a car radio plug. It was also used on some military gear.

thanks much and 73,
ben, kd5byb

From wiltelco at gmail.com Thu Feb 13 18:00:55 2014
From: wiltelco at gmail.com (Lionel Williams)
Date: Thu, 13 Feb 2014 17:00:55 -0600
Subject: [BoatAnchors] Need help with identifying rotary inductor
Message-ID: <CAAfq8XGeUZC3NNFosJOAhqG0xhydSR4-9pVbZBey=u08C6HQRg@mail.gmail.com>

I have a large Collins rotary inductor/autotuner. Looks to be part of an
aircraft transmitter. Power is 28 VDC and it was mfd in Toronto. No
placards on it. Anyone with possible id of transmitter/tuner or schematic??

Here is link to photos:

cmd.shutterfly.com/commands/format/rss?site=rotaryinductor&page=rotaryinductor%2fpictures
<<http://cmd.shutterfly.com/commands/format/rss?site=rotaryinductor&page=rotaryinductor%2fpictures>>

Thanks!

Lionel K5LW

From bob145 at suddenlink.net Sat Feb 15 10:02:51 2014
From: bob145 at suddenlink.net (Bob Jackson)
Date: Sat, 15 Feb 2014 09:02:51 -0600
Subject: [BoatAnchors] Hallicrafters Restorations

Message-ID: <72A735D01FB247A8B0B6CB95F934AB11@c1408123a>

I need a recommendation for someone who does restorations on Hallicrafters. I've got a very nice S-76 in VG+ working condition. It's a bit out of alignment on 1-2 bands but otherwise is fine. Cosmetics are good overall but a bit dusty/dirty. Any recommendations for someone to take it on, do the alignment and "make it pretty" again inside and out? This a fairly large and heavy rcvr.

Tnx and 73 to all,

Bob

From bkemp at bobkemp.com Sat Feb 15 10:40:46 2014
From: bkemp at bobkemp.com (bkemp at bobkemp.com)
Date: Sat, 15 Feb 2014 09:40:46 -0600
Subject: [BoatAnchors] Swan 700cx
Message-ID: <DC76FCDD03C48C6A9CEF758E35442B0@Bob>

Picked up a Swan 700cx and have 2 issues.

1. Is there a replacement for the plug in relay - and would anyone have the number?
2. I've replaced a couple resistors in the balanced modulator thinking it would cure the low output (this used to be the most common curet) when I turn the carrier balance control.

As I recall I should be able to push upwards to 50 watts or more by doing that. I'm only getting 10 watts out (this was before and after the resistor changes).... This unit does not have the SS-16 filter by the way....just a stock unit.

Tried changing the tube 6JH8 also, no effect. I do get a full 350+ watts out on the 8950's in tune and on ssb...output is fine otherwise.

Any ideas?

wa0vrc

Bob Kemp
651-764-4788

From w1ksz at earthlink.net Sat Feb 15 15:26:22 2014
From: w1ksz at earthlink.net (Richard Solomon)
Date: Sat, 15 Feb 2014 13:26:22 -0700
Subject: [BoatAnchors] D-104 Element Replacement
Message-ID: <52FFCD6E.6070000@earthlink.net>

I have a D-104 I would like to use on my "new" Valiant, but the element is bad.

What would be the recommended replacement ? Please note; this is the mike without the CB pre-amp.

73, Dick, W1KSZ

From w9ac at arrl.net Sat Feb 15 18:12:27 2014
From: w9ac at arrl.net (Paul Christensen)
Date: Sat, 15 Feb 2014 18:12:27 -0500
Subject: [BoatAnchors] D-104 Element Replacement
References: <52FFCD6E.60700000@earthlink.net>
Message-ID: <85B23C944AD14F74A0E14DE930EB8B52@btgpc>

>I have a D-104 I would like to use on my "new" Valiant, but the element
> is bad.

Dick,

You can find replacement D104 elements from various on-line sources.
Kobitone made two versions of a direct replacement, but I never liked the
response curves. I believe RBmicro is using these elements:

<http://rbmicro.com/>

Apart from damaged mic elements, I've found that older D104 cartridges
produce the widest response, particularly at the low-end of the curve. This
coincides with older D104 cartridges generally having a larger source
capacitance. With patience, you can find a used mic cartridge or an entire
D104 mic head.

I've also upgraded several D104 mics with electret condenser elements. You
can find these from many on-line sources for only a few dollars each and
frankly, they're far superior to the crystal element. However, for the
Valiant, you'll need to power the electret mic element with a +1.5V or 9V
battery placed in the mic base, with power switched with contacts in the
grip-to-talk arm. If you go this route, select a unidirectional electret
rather than omnidirectional. Also, select an electret with the lower source
Z of 680-ohms. The other common Z for an electret is in the K-ohm area.
However, this isn't much of a concern unless you're using an unusually long
mic cable or there's a low termination Z at the transmitter mic input.

Paul, W9AC

From navy.radio at gmail.com Tue Feb 18 14:29:56 2014
From: navy.radio at gmail.com (Nick England)
Date: Tue, 18 Feb 2014 14:29:56 -0500
Subject: [BoatAnchors] Charlotte NC hamfest - TTY wanted
Message-ID: <CAB55hNcjL2=AA-zox9KvyOwLtB8-fv3sUQZkjTsv3Sq4Fa6cuA@mail.gmail.com>

I'd like to acquire a friction feed Model 28 typing unit to replace a sprocket feed one that I have. If anyone would like to swap or has an extra for sale (or trade for a 28 reperf) and is coming to the Charlotte hamfest, please let me know. Or a complete rusty dirty cheap 28 R0 or KSR....

cheers,

<<http://www.navy-radio.com>>

Nick England K4NYW

www.navy-radio.com

From knjhanlon at msn.com Thu Feb 20 15:16:59 2014

From: knjhanlon at msn.com (JAMES HANLON)

Date: Thu, 20 Feb 2014 13:16:59 -0700

Subject: [BoatAnchors] Swan 700cx

In-Reply-To: <DC76FCDDD03C48C6A9CEF758E35442B0@Bob>

References: <DC76FCDDD03C48C6A9CEF758E35442B0@Bob>

Message-ID: <BLU403-EAS71D38D3FBE1239EF277D89A09A0@phx.gbl>

Bob,

I've had to replace relays in my HT-32 and Eldico SSB-100, and I've used combinations of relays like the Panasonic DS series, for example Mouser part number 769-DS2E-M-DC48V, spdt. 48 volt dc coil, for \$4.19 each. I put two with their coils in series in my HT-32 to replace a 4pdt relay.

Jim, w8kgi

Sent from my iPhone

> On Feb 15, 2014, at 8:40 AM, <bkemp at bobbkemp.com> wrote:

>

> Picked up a Swan 700cx and have 2 issues.

> 1. Is there a replacement for the plug in relay - and would anyone have the number?

> 2. I've replaced a couple resistors in the balanced modulator thinking it would cure the low output (this used to be the most common curet) when I turn the carrier balance control.

> As I recall I should be able to push upwards to 50 watts or more by doing that. I'm only getting 10 watts out (this was before and after the resistor changes).... This unit does not have the SS-16 filter by the way....just a stock unit.

> Tried changing the tube 6JH8 also, no effect. I do get a full 350+ watts out on the 8950's in tune and on ssb...output is fine otherwise.

> Any ideas?

> wa0vrc

>

>

> Bob Kemp

> 651-764-4788

>

From JJan-3 at cox.net Thu Feb 20 20:00:59 2014
From: JJan-3 at cox.net (Jim Hill)
Date: Thu, 20 Feb 2014 17:00:59 -0800
Subject: [BoatAnchors] Scars Annual Radio Auction
Message-ID: <20140221010046.QYPA11537.fed1rmfepo101.cox.net@fed1rmimpo109>

The SCARS (Southern California Antique Radio Society) annual auction is scheduled for this coming Saturday, February 22, 2014 in the city of Orange in the Los Angeles - Orange county general area. See <http://www.antiqueradios.org/events.html> for details.

The greatest interest in collectible BCB radios from the 20's (and some earlier up to recent times. However, there is collectible audio equipment and test equipment, both antique and for current use. Magazines are usually there, and I managed to get some Short Wave Craft mag's from the 30's last time. There are always some boatanchors. I have seen Super Pro's, SX28's, 51J's and various Nationals in recent auctions. For sellers, it is a nice place to sell those boatanchors you have trouble moving as you get older without the shipping hassles. Selling is more certain and prices better than at the TRW Swap meet. For buyers, it is a good place to see a number of items in one place, with a good chance of some desirable radios. It's hard to tell what will be there this year, but I can guarantee two items since I'm bringing them, a SP600JX 17. in poor shape and a PR0310 with manual in good shape.

You can come in and look around, but to buy or sell, you must be a member, which costs \$20. There's a membership table at the door. Lunch is available for \$5.00 for members. It's a good lunch, worth much more than \$5.00. Forms, tags that go with each item and a summary sheet, can be downloaded. If you have more than one or two items, be sure to download them. If you buy and or sell, plan in being there all day. Also, they are not set up for you to use your sale proceeds for buys.

Hope to see you there.
Jim, w6ivw

From gharmon at idworld.net Fri Feb 21 22:12:13 2014
From: gharmon at idworld.net (Gary H. Harmon, Jr.)
Date: Fri, 21 Feb 2014 21:12:13 -0600
Subject: [BoatAnchors] FW: Hammurand Part Needed - HQ-170

Message-ID: <assp.1130310b4e.002e01cf2f7b\$e2167840\$a64368c0\$idworld.net>

My friend Ron needs the part as described. If you have one or have a suggested process for fixing the existing shaft, please let me and/or Ron know.

73,

Gary H. Harmon, Jr. - K5JWK

6003 Archwood

San Antonio, TX 78239-1504

210.657.1549h / 210.884.6926c/t

"Retirement means every day is a Saturday except Sunday"

<http://www.grissomroadcoc.org>

From: Ron Eisenbrey [mailto:ab5wg at satx.rr.com]

Sent: Friday, February 21, 2014 9:01 PM

To: 'Gary H. Harmon, Jr.'

Subject: RE: Hammarlund Part

Vernier Tuning Control

Would you be a member of a Boatanchor's group or Hammarlund group where you could post a want for me? I have started restoration on a HQ-170 and have discovered that the main shaft of a tuning capacitor is bent. I am afraid that it will break if I attempt to straighten it, it is a special gear reducing shaft, and think it best to just try and find a replacement.

Value of the capacitor is unknown and not specified in the parts list or on the schematic, but in looking at the plates, it appears to be a low value cap. Here is how Hammarlund describes the part in the parts list.

C30 Variable Cap, Vernier Tuning K42040-2

Could you help with any of your multitude of groups?

Thanks,

Ron

From landn2 at frontier.com Sat Feb 22 02:48:58 2014
From: landn2 at frontier.com (Liles and Naomi Garcia)
Date: Fri, 21 Feb 2014 23:48:58 -0800
Subject: [BoatAnchors] National SW-5 Project Update
Message-ID: <OBEDKFDGHEPDGADPPEHF AE OFEJAA.landn2@frontier.com>

Good evening Everybody,

A few months ago, I wrote you all about my National SW-5 project radio that I was going to be working on. Well, I now have it working, and I am checking it out. I made a power supply for it also.

As you all remember, my SW-5 was highly modified when I got it. I took a lot of things out and then put my radio together the best that I could. I got a lot of coils with my radio, but more on that later. I put my SW-5 together as the SW-45 version. The SW-45 came later, I know, but I used 24A tubes in the front end, instead of the newer 35 tubes. My radio has a driver transformer and a universal output transformer that I had gotten for it. The detector coupling inductor, S-101, was in my radio and was good. Many thanks for that!! I have ceramic sockets for the 27 detector tube and the 45's. I have seen pictures of National SW-3's and some of them have ceramic sockets. I used wafer sockets for the front end tubes. I have seen pictures of SW-5's

and they looked to have all wafer sockets. I chose the sockets so that I would not need to drill any more holes in my chassis--there were already enough extra holes from all of the mods.

As I mentioned earlier, I am still checking out my SW-5. I only have a 10 foot antenna from my work table to a curtain rod. I can receive broadcast stations, and I heard a foreign broadcast station, but I could not understand the language, so I am not sure exactly what it was. The coil that I have for the 4 to 8 MHz band (white coil) has a broken lead, but I will fix it and use it. I am running the P-P 45's at 225 volts on their plates, and since the SW-5 has a metal case, the heat from the 45's is not a problem. A friend gave me the 45's, and they sound really great on broadcast stations!!

I want to thank the following people for answering my email and giving me advice on my SW-5:

Boatanchors Email List: Arden Allen, Russ, Scott Robinson
National Email List: Barry Williams, Carl

Your input and advice is very much appreciated!!

Since my SW-5 was highly modified when I got it, when I looked at the coils that I got with it at first glance they looked original and OK. However, on further detailed checks, I found that some of my coils have been modified also. All of the tickler (slot windings) are not the same for the same two coils. This means that I still have a little more work to do. I have some really fine cloth-covered wire that looks to be the same size as some of the wires on the other coils that I have.

One more note: The coils for the SW-5 are color-coded; colors are on coils for the different frequency range that each coil pair covers. However, I have a pair of coils that are marked with the number " 60 ". These are for later National SW-3's and for National SW-58's that have 58 rf amp and detector tubes. These coils tune from 19.5 MHz to 35 Mhz, and they are in great condition. If anyone can use these coils, maybe we can work out a trade. I would like the Yellow coils for my SW-5. These cover the lower part of the BC band which is 500 KHz to 900 KHz.

Let me know if you have any questions, or if you can use my Number 60 coils.

Best from Aloha, Oregon,
Liles Garcia
landn2 at frontier.com

From k0al at mchsi.com Sat Feb 22 11:31:29 2014
From: k0al at mchsi.com (k0al at mchsi.com)
Date: Sat, 22 Feb 2014 10:31:29 -0600 (CST)
Subject: [BoatAnchors] COUPLATE INFORMATION NEEDED
Message-ID: <1283125426.8013581393086689222.JavaMail.root@dsmc-mail-mbs15>

I am working on a Globe King 400C. The 1953 (+/-) vintage unit has sat unused since the 1970s.

I've got the HV power supply and RF working fine in CW mode with great note and loads of power output.

When I progress to the modulator deck I encounter a major problem. Key the transmitter, modulator pegs the plate current meter and the transmitted audio is nothing but hash (microphone disconnected). I've replaced the electrolytics and now am faced with deciphering some devices in the audio driver section that I've never encountered before.

The unit uses three early forms of what appear to be an early printed circuit device called a COUPLATE. The only information I can find is an ad by Centralab describing these devices as doing 4 functions in one unit: plate load resistor, grid resistor, plate by-pass capacitor and coupling capacitor.

The mod deck uses two different styles, one a PC-91 with 6 leads and two of a PC-81 with four leads.

Any one have a clue as to what values and what leads correspond to the equivalent discrete components?

Stumped in cold Iowa.

AL, K0AL

From CBRENNER at uwec.edu Sat Feb 22 13:00:11 2014
From: CBRENNER at uwec.edu (Brenner, Charles J.)
Date: Sat, 22 Feb 2014 18:00:11 +0000
Subject: [BoatAnchors] American Aero Services Web Site
Message-ID: <3B2C101E19CBC240B031AA79D40D2BED691230AD@EX2010-MBX1.uwec.edu>

FYI. American Aero Services of New Smyrna Beach Florida is among the worlds most respected restorers of vintage aircraft. They are the company that restores and maintains the World War II aircraft commonly referred to as "War Birds. On their website www.americanaeroservices.com are some great radio room pictures of a B17G that they are currently restoring. Look under the tab for "Recent Warbird Projects.

73,

Chuck, WB9GJW

From arc5 at ix.netcom.com Sat Feb 22 17:32:51 2014
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 22 Feb 2014 16:32:51 -0600
Subject: [BoatAnchors] Racal RA-6790/GM Receiver
Message-ID: <80C9056D118641788D1E8C258B4EA5B0@DaddyPC>

Can someone point me to a group and/or expert in the Racal RA-6790/GM receiver? I just fixed one and need to ask a couple of questions. Thanks.

From k4pf at jun0.com Sat Feb 22 22:55:57 2014
From: k4pf at jun0.com (k4pf at jun0.com)
Date: Sun, 23 Feb 2014 03:55:57 GMT
Subject: [BoatAnchors] Racal RA-6790/GM Receiver
Message-ID: <20140222.225557.17160.0@webmail02.vgs.unttd.com>

> David Stinson <arc5 at ix.netcom.com> wrote
> Can someone point me to a group and/or expert in the Racal RA-6790/GM receiver? I just fixed one and need to ask a couple of questions. Thanks.

Hi, Dave

You might try joining

<http://mailman.qth.net/mailman/listinfo/premium-rx>

Plenty of people knowledgeable about high-end Racals in that group.

73,
Ed Knobloch

From bob145 at suddenlink.net Mon Feb 24 19:37:16 2014
From: bob145 at suddenlink.net (Bob Jackson)
Date: Mon, 24 Feb 2014 18:37:16 -0600
Subject: [BoatAnchors] Hammarlund service needed
Message-ID: <5F4A1C30C1074C11AFE19B24B088BD89@c1408123a>

Does anyone know of someone that (a) really knows what they're doing and (b) can/will work on Hammarlund gear and (c) is in the Greater North/ East TX area?

Tnx and 73 to all,

Bob AG5X

From mike at oldaudio.net Wed Feb 26 12:28:27 2014
From: mike at oldaudio.net (Mike Durff)
Date: Wed, 26 Feb 2014 09:28:27 -0800 (PST)
Subject: [BoatAnchors] WTB: AWA review back issues...
Message-ID: <1393435707.80710.YahooMailNeo@web5705.biz.mail.ne1.yahoo.com>

Wanted:

As I am coming back into the radio hobby after a 45 year absence... I have a lot of catching up to do.

?I am looking for back?issues of the AWA review or other old publications to read.

?please contact me off list,... mikedurff at yahoo.com

From w3nu at roadrunner.com Wed Feb 26 18:05:03 2014
From: w3nu at roadrunner.com (Charles Ring)
Date: Wed, 26 Feb 2014 18:05:03 -0500
Subject: [BoatAnchors] COUPLATE INFORMATION NEEDED
In-Reply-To: <1283125426.8013581393086689222.JavaMail.root@dsmc-mail-mbs15>
References: <1283125426.8013581393086689222.JavaMail.root@dsmc-mail-mbs15>
Message-ID: <530E731F.1050704@roadrunner.com>

See <http://pacifictv.ca/schematics/centralabcouplates.pdf>

Some hams have replaced the couplates with conventional parts to improve the Globe King's audio quality.

73 de W3NU

On 2/22/2014 1131, k0al at mchsi.com wrote:

> I am working on a Globe King 400C. The 1953 (+/-) vintage unit has sat unused since the 1970s.

>

> I've got the HV power supply and RF working fine in CW mode with great note and loads of power output.

>

> When I progress to the modulator deck I encounter a major problem. Key the transmitter, modulator pegs the plate current meter and the transmitted audio is nothing but hash (microphone disconnected). I've replaced the electrolytics and now am faced with deciphering some devices in the audio driver section that I've never encountered before.

>

> The unit uses three early forms of what appear to be an early printed circuit device called a COUPLATE. The only information I can find is an ad by Centralab describing these devices as doing 4 functions in one unit: plate load resistor, grid resistor, plate by-pass capacitor and coupling capacitor.

>

> The mod deck uses two different styles, one a PC-91 with 6 leads and two of a PC-81 with four leads.

>

> Any one have a clue as to what values and what leads correspond to the equivalent discrete components?

>

> Stumped in cold Iowa.

>

> AL, K0AL

>

From w7qho at aol.com Wed Feb 26 23:41:19 2014

From: w7qho at aol.com (mac)

Date: Wed, 26 Feb 2014 20:41:19 -0800

Subject: [BoatAnchors] COUPLATE INFORMATION NEEDED

In-Reply-To: <530E731F.1050704@roadrunner.com>

References: <1283125426.8013581393086689222.JavaMail.root@dsmdc-mail-mbs15>
<530E731F.1050704@roadrunner.com>

Message-ID: <47E005A4-49BA-45A3-8391-645B659C1D1D@aol.com>

Excellent idea. I've never had anything but trouble with these things.....

Dennis D. W7QH0
Glendale, CA

On Feb 26, 2014, at 3:05 PM, Charles Ring wrote:

> Some hams have replaced the couplers with conventional parts to
> improve the Globe King's audio quality.

From WA5CAB at cs.com Thu Feb 27 18:42:05 2014

From: WA5CAB at cs.com (WA5CAB at cs.com)

Date: Thu, 27 Feb 2014 18:42:05 -0500 (EST)

Subject: [BoatAnchors] FW: National HRO Manual 1939

Message-ID: <a5233.1d247eb4.4041274d@cs.com>

For sale, Original "Instruction Manual for The National HRO Communication Receiver", 1939. 20 pages (counts F & R covers). Good condition, minor stains on three interior pages, otherwise doesn't appear to be yellowed. \$10 shipped CONUS.

Robert Downs - Houston

wa5cab dot com (Web Store)

MVPA 9480